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May 1992

Directory of Research Institutions in Aquaculture



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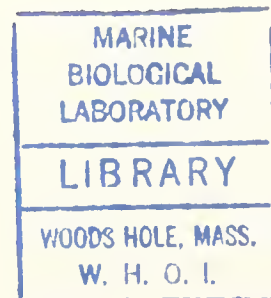
By

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Aquaculture Information Center
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Foreword

This directory is for aquaculture scientists and researchers, students, Government agency staff, and others interested in the current areas of research in aquaculture in the United States. The directory was compiled from information provided by the **U.S. Fish and Wildlife Service**, the **National Sea Grant College Program**, and the **American Fisheries Society**. Approximately 200 research institutions were contacted by mail regarding their interest in being included in this directory. Responses from 139 of those research institutions are included in this directory. They were also asked to verify their address and to include subject information regarding their aquaculture-related research. The Aquaculture Information Center wishes to thank them for their assistance in providing information for this directory.

Some of the institutions listed may have very limited aquaculture programs or research directly or indirectly related to aquaculture. This list is not comprehensive, and some ongoing aquaculture research programs may have been missed inadvertently. In addition, due to the changing funding for aquaculture research, some of the programs included may have changed their research directions since the printing of this publication.

Programs are listed alphabetically by State or territory with mailing addresses and when available, phone or FAX numbers. The umbrella institution is in boldface for each entry. Also included at the end is a Subject Index.

Acknowledgments

Special appreciation is expressed to Nancy Thomson for her time in verifying addresses and phone numbers and for her assistance with word processing.

ALABAMA

Department of Fisheries and Allied
Aquacultures
203B Swingle Hall
Auburn University, AL 36849-5419

Phone: (205) 844-4786
FAX: (205) 844-9208

Research areas:

Fish health; genetics and breeding; hatchery management; nutrition; product quality; production systems; water quality.

International Center for Aquaculture
Department of Fisheries & Allied
Aquaculture
Auburn University
Auburn, AL 36849-5124

Phone: (205) 826-4786

Research areas:

Hatcheries; international aquaculture; shrimp culture.

Southeastern Fish Cultural Laboratory
U.S. Fish and Wildlife Service
Route 3, Box 86
Marion, AL 36756

Phone: (205) 683-6175
FAX: (205) 683-6603

Research areas:

Catfish diseases; microbiology; pond management; stress physiology; water quality.

ALASKA

Chairman
Division of Science & Mathematics
Sheldon Jackson College
801 Lincoln Street
Sitka, AK 99835

Research areas:

Wire tagging of coho and chinook salmon for survival studies; culture of bivalve shellfish; culture of chinook, chum, coho and pinko salmon.

ARIZONA

Zoology Department
Arizona State University
Tempe, AZ 85287-1501

Research areas:

Conservation; fisheries biology; molecular evolution in fishes; systematics.

Environmental Research Laboratory
University of Arizona
Tucson International Airport
2601 East Airport Drive
Tucson, AZ 85706

Phone: (602) 741-1990
FAX: (602) 573-0852

Research areas:
Integrated agriculture/aquaculture; paddlefish;
penaeid shrimp; tilapia.

ARKANSAS

Department of Fisheries & Wildlife
Biology
Arkansas Tech University
Russellville, AR 72801

Research areas:
Baitfish production; catfish production; pond
management.

Fish Farming Experimental Laboratory
U.S. Fish and Wildlife Service
P.O. Box 860
Stuttgart, AR 72160-0860

Phone: (501) 673-4483, -4484
FAX: (501) 673-7710

Research areas:
Alternative fertilization procedures; ammonia
metabolism in culture ponds; cause of
proliferative gill disease in channel catfish;
goldfish summer syndrome ; off-flavor in
channel catfish; striped bass culture
techniques; water quality management for
striped bass.

CALIFORNIA

Aquatic Research Institute
2242 Davis Court
Hayward, CA 94545

Phone: (415) 782-4058
FAX: (415) 785-0945

Research areas:
Aquatic sciences and technology; fisheries;
information retrieval aquaculture.

Hubbs Sea World Institute
1700 South Shores Road
San Diego, CA 92109

Research areas:
Culture of marine fish; invertebrates and algae;
enhancement of marine fisheries.

Department of Fisheries
Humboldt State University
Arcata, CA 95521

Research areas:
Ecology; genetics; parasites and diseases;
physiology; phycology; water quality.

Coastal and Marine Institute
San Diego State University
San Diego, CA 92182-0408

Phone: (619) 594-6523
FAX: (619) 594-5676

Bodega Marine Laboratory
University of California
P.O. Box 247
Bodega Bay, CA 94923

Phone: (707) 875-2211

Department of Biology
University of California
Los Angeles, CA 90024-1606

Department of Wildlife & Fisheries
Biology
University of California
Davis, CA 95616

Aquaculture and Fisheries Program
University of California, Davis
Davis, CA 95616

Marine Science Institute
**University of California, Santa
Barbara**
Santa Barbara, CA 93106

Phone: (805) 893-3765
FAX: (805) 893-8062

Research areas:

Invertebrates of pharmacological interest;
ocean stock enhancement.

Research areas:

Disease in crustaceans, fish, and molluscs;
endocrinology; genetics and broodstock
development; nutrition; reproductive biology.

Research areas:

Effluent of cultured species of marine fishes;
use of gynogenetically cloned fishes in
aquaculture and related areas of
environmental quality monitoring.

Research areas:

Bird/aquaculture interactions in Western
U.S./Mexico; effects of stress and handling on
fish.

Research areas:

Broad based program including: aquacultural
engineering; aquatic animal medicine; aquatic
animal production; aquatic toxicology; biology
of fishes; experimental aquaculture; marine
food science; nutrition and feeding of finfish
and shellfish; physiology of fishes;
reproduction of aquatic animals.

Research areas:

Coastal fisheries; marine biology; marine
biotechnology; phycology.

Catalina Marine Science Center
University of Southern California
P.O. Box 398
Avalon, CA 90704

Phone: (213) 743-6792

Research areas:

Developmental aspects of marine larva;
genetics of clonal marine animals; long-term
monitoring of kelp forest communities; UV
vision marine animals.

COLORADO

Department of Fishery & Wildlife Biology
Colorado State University
Collins, CO 80523

Phone: (303) 491-5657

Research areas:

General aquaculture projects on Colorado
squawfish (a rare and endangered species).

DELAWARE

Department of Agricultural and Natural
Resources
Delaware State College
Dover, DE 19901-2275

Phone: (302) 739-5189
FAX: (302) 739-4997

Research areas:

Crawfish biology and life history; crawfish
production and management; general
aquaculture; striped bass and hybrid
production.

College of Agricultural Sciences
Department of Food and Resource
Economics
University of Delaware
Newark, DE 19717-1303

Phone: (302) 451-1315

Research areas:

Catfish; crawfish; farm level profitability (ponds
and closed systems); hybrid striped bass;
production and marketing constraints; risk and
returns simulation.

College of Marine Studies
University of Delaware
Lewes, DE 19958

Phone: (302) 646-4364
FAX: (302) 645-4028

Research areas:

Early life history of weakfish, summer flounder
and tautog; field growout fish and shellfish;
marine policy; shellfish genetics.

Delaware Sea Grant Marine Advisory
Service
College of Marine Studies
University of Delaware
700 Pilottown Road
Lewes, DE 19958-1298

Phone: (302) 645-4060
FAX: (302) 645-4007

Research areas:
Clams; hybrid striped bass; policy and
regulatory aspects related to aquaculture;
waste management.

FLORIDA

Florida Marine Research Institute
Department of Natural Resources
100 8th Avenue, S.E.
St. Petersburg, FL 33701-5095

Phone: (813) 896-8626
FAX: (813) 823-0166

Research areas:
Animal diseases in closed systems; culture
and rearing of marine animals; marine animal
health; production and research ponds.

Florida Institute of Technology
Biological Sciences Department
150 West University Boulevard
Melbourne, FL 32901

Phone: (407) 768-8000 ext. 8034
FAX: (407) 984-8461

Research areas:
Bivalve culture; cage mariculture of finfish;
culture of research animals (fish, crustaceans,
bivalves); genetic engineering.

Indian River Marine Science Research
Center
Florida Institute of Technology
805 46th Place East
Vero Beach, FL 32963

Phone: (407) 234-4096

Research areas:
Mahimahi (dolphin fish) aquaculture studies;
red drum (*Sciaenops ocellatus*) stocking
project.

**Harbor Branch Oceanographic
Institution**
5600 Old Dixie Highway
Ft. Pierce, FL 34946

Phone: (407) 465-2400
FAX: (407) 465-2446

Research areas:
Fish, clam, and oyster culture.

Mote Marine Laboratory

1600 Thompson Parkway
Sarasota, FL 34236

Phone: (813) 388-4441

FAX: (813) 388-4312

University of Florida

Department of Fisheries & Aquaculture
7922 NW 71 Street
Gainesville, FL 32606

Phone: (904) 392-9617

FAX: (904) 392-3462

Rosenstiel School of Marine and
Atmospheric Sciences
Division of Marine Biology & Fisheries
University of Miami

4600 Rickenbacker Causeway
Miami, FL 33149-1098

Phone: (305) 361-4185

FAX: (305) 361-4711

National Fisheries Research Center
U.S. Fish and Wildlife Service
7920 NW 71 Street
Gainesville, FL 32606

Phone: (904) 378-8181

Research areas:

Nutritional studies; phytoplankton culture;
sexual transformation of hermaphroditic fishes;
stock enhancement.

Research areas:

Aquaculture effluents-description and
management techniques; barriers to
aquaculture (survey); design and construction
of recirculating systems; fish health
management (parasites and diseases);
genetics of ornamental fish (livebearers);
ornamental fish spawning and reproduction;
polymer production via algae.

Research areas:

Genetics of aplysia (sea hare); intensive and
extensive culture of snook and red drum (red
fish); macroalgae culture; maturation of
Penaeus shrimp; optimumization of culture of
aplysia (biomedical research).

Research areas:

Culture of gulf sturgeon; diet studies on hybrid
striped bass.

GEORGIA

Animal Science Department
Coastal Plain Experiment Station
P.O. Box 748
Tifton, GA 31793-0748

Phone: (912) 386-3364

Research areas:

Aquaculture effluents; aquaculture water
quality; channel catfish; fish health; freshwater
fish parasites; warmwater fish nutrition.

Biological & Agricultural Engineering
Dept.
Coastal Plain Experiment Station
P.O. Box 748
Tifton, GA 31793-0748

Phone: (912) 386-3918

Cohutta Fisheries Center
U.S.Department of Agriculture
Cooperative Extension Service
P.O. Box 280
Cohutta, GA 30710

Phone: (404) 694-8830

Extension Fisheries Specialist
Ag. Experiment Stations, GA Station
1109 Experiment Street
Griffin, GA 30223-1797

Sea Grant College Program
Ecology Building
Athens, GA 30602

Phone: (404)542-7671
FAX: (404) 542-5888

Agricultural Economics
315 Conner Hall
University of Georgia
Athens, GA 30602

Phone: (404) 542-0755

College of Veterinary Medicine
University of Georgia
Athens, GA 30602

Phone: (404) 542-5811

Research areas:

Automation in catfish processing industry;
water quality and reuse.

Research areas:

Channel catfish; rainbow trout; striped and
hybrid striped bass.

Research areas:

Aquatic weed control; catfish farming.

Research areas:

Bivalve mollusks; feeding and nutrition;
genetics; grow-out technology; reproductive
physiology.

Research areas:

Catfish demand, marketing, price analysis;
shrimp mariculture, production economics,
marketing; and shrimp price
analysis/forecasting.

Research areas:

Antimicrobial resistance of bacterial fish
pathogens; studies of mechanisms of
pathogenesis of bacterial fish pathogens
utilizing transpositional mutagenesis.

Dept. of Medical Microbiology
College of Veterinary Medicine
Room 347

University of Georgia
Athens, GA 30602

Phone: (404) 542-3473

Extension Aquaculture & Fisheries

University of Georgia
Athens, GA 30602

Phone: (404) 542-1924

Dr. Yao-wen Huang
207A Food Science Bldg.
Dept. of Food Science and Technology

University of Georgia
Athens, GA 30602

Phone: (404) 542-2286
FAX (404) 542-1050

Research areas:

Antibiotic resistance studies of aquatic microorganisms; antiprotozoal studies (immunization) of fish; killer cell functions in fish; new medicants for protozoans of fish.

Research areas:

Channel catfish; hybrid and striped bass; rainbow trout.

Research areas:

Microbial safety of prepackaged catfish and rainbow trout; quality assessment of catfish using vacuum skin packaging and modified atmosphere storage; residues related safety study in processed catfish and trout; storage quality of refrigerated and frozen catfish.

HAWAII

Anuenue Fisheries Research Center
Department of Land and Natural Resources (DLNR)

Division of Aquatic Resources,
Area 4
Sand Island Access Road
Honolulu, HI 96819

Phone: (808) 845-9561
FAX: (808) 845-4334

Research areas:

Akule (*Selar crumenophthalmus*); mahimahi (*Coryphaena hippurus*); malaysian prawn (*Macrobrachium rosenbergii*); marine shrimp (*Penaeus vannamei*, *Penaeus stylirostris*); moi (*Polydactylus sexfilis*); samoan crab (*Scylla serata*); aquatic diseases.

Kauai Community College
3-1901 Kaumualii Hwy.
Lihue, HI 96766-9591

Research areas:

Coring and dating ancient Hawaiian fish ponds; general fresh-brackish water environments; life cycle of Hawaiian endemic goby (*Awaous stamineus*); prehistoric Hawaiian aquacultural systems.

**Natural Energy Lab of Hawaii
Authority**

P.O. Box 1749
Kailua-Kona, HI 96745-1749

Phone: (808) 329-7341

Research areas:

Coldwater, warmwater, and cleanwater
aquaculture; pearl oysters; sea cucumber;
ocean thermal energy conversion.

Oceanic Institute

Makapuu Point
P.O. Box 25280
Honolulu, HI 96825-0280

Phone: (808) 259-7951

FAX: (808) 259-5971

Research areas:

Feeds research; finfish research;
oceanography; shrimp research.

Oceanit Laboratories, Inc.

1188 Bishop Suite 2512
Honolulu, HI 96813

Phone: (808) 531-3017

FAX: (808) 526-1519

Research areas:

Productivity using deep ocean wastes;
subtropical/tropical aquaculture facilities
design.

Department of Animal Science

University of Hawaii

1800 East West Rd.
Henke Hall 106
Honolulu, HI 96822

Phone: (808) 956-8356

FAX: (808) 956-4883

Research areas:

Fish and shrimp growth.

College of Tropical Agriculture

University of Hawaii

3050 Maile Way
Gilmore 202
Honolulu, HI 96822

Phone: (808) 956-8234

Research areas:

Clams (Giant); engineering (pond
development); oysters, prawns, and shrimp
(brine and freshwater); production
(multi-crops); seaweed; skipjack tuna.

Department of Agricultural Engineering
University of Hawaii
3050 Maile Way, Gilmore 111
Honolulu, HI 96822

Phone: (808) 956-8186
FAX: (808) 956-9269

Chairman
Department of Microbiology
University of Hawaii
2538 The Mall, Snyder 207
Honolulu, HI 96822

Phone: (808) 956-8553
FAX: (808) 956-5339

Department of Zoology
University of Hawaii
2538 The Mall, Edmonson 152
Honolulu, HI 96822

Phone: (808) 956-8617, -7315
FAX: (808) 956-9111

Hawaii Institute of Marine Biology
(HIMB)
University of Hawaii
P.O. Box 1346
46-007 Lilipuna Rd.
Kaneohe, HI 96744

Phone: (808) 236-7401
FAX: (808) 236-7443

Waianae Coastal Comm. Dev. Corp.
P.O. Box 630
85-555 Farrington Hwy
Waianae, HI 96792

Phone: (808) 696-7241
FAX: (808) 696-9411

Research areas:

Interaction between suspended solids and water quality management; saltwater shrimp and oyster co-production.

Research areas:

Tissue culture and viruses of penaeid shrimps.

Research areas:

Endocrinology of growth and reproduction in shrimps and fishes; indicators of aging in shrimp and fish; molecular genetics of shrimp; nutrition in shrimp and fish.

Research areas:

Automation in aquaculture; endocrinology of fish as applied to aquaculture; nutrition of fish and crustaceans; ornamental fish culture.

Research areas:

Tilapia production in recirculating tank systems.

IDAHO

Hagerman Field Station
U.S. Fish and Wildlife Service
3059F National Fish Hatchery Road
Hagerman, ID 83332

Phone: (208) 837-4457
FAX: (208) 837-6627

Research areas:
Anadromous fish; coldwater fish; fish nutrition and physiology.

College of Forestry, Wildlife and Range
Science
Dept. of Fish and Wildlife
University of Idaho
Moscow, ID 83843

Research areas:
Fish health management; fish diseases; water quality.

ILLINOIS

Fisheries Research Laboratory
Southern Illinois University
Carbondale, IL 62901

Phone: (618) 453-6025
FAX: (618) 536-7761

Research areas:
Culture of sunfish, yellow perch, walleye, hybrid and striped bass, crayfish, and sauger; gene transfer; growth hormones; handling and stress; maintenance of brood fish; off-season spawning; ploidy manipulations; water reuse systems.

Illinois State University
150 Turner Hall
Normal, IL 61761-6901

Phone: (309) 438-3492
FAX: (309) 438-5037

Research areas:
Growth regulation of crawfish and prawns; indoor recirculation systems for tilapia.

Department of Biology
Loyola University of Chicago
6525 N. Sheridan St.
Chicago, IL 60626

Research areas:
Benthic algal succession in Lake Michigan.

INDIANA

Aquatic Biology and Fisheries
Department of Biology
Ball State University
Muncie, IN 47306-0440

Research areas:

Fish and hydroponics experiments; intensive pond culture of fathead minnows.

Aquaculture Extension Specialist
Department of Animal Sciences
1151 Poultry Science Bldg.
Purdue University
West Lafayette, IN 47907-1151

Research areas:

Crawfish, bluegill, hybrid striped bass, trout and yellow perch nutrition; production methods in cages, ponds and recirculating systems.

Phone: (317) 494-6264
FAX: (317) 494-9347

Department of Forestry & Natural
Resources
1159 Forestry Building
Purdue University
West Lafayette, IN 47907-1159

Research areas:

Crayfish; dietary development for aquatic animals; hybrid striped bass; role of solid-phase interactions in aquatic toxicity.

IOWA

Department of Animal Ecology
124 Science Hall 2
Iowa State University
Ames, IA 50011

Research areas:

Hybrid striped bass, sunfish, walleye and larval fish culture; recycle aquaculture; trout feed formulations; zooplankton dynamics.

KANSAS
Division of Biology
Kansas State University
Manhattan, KS 66506

Research areas:

Crayfish culture; feed technology.

Department of Biology
Pittsburg State University
Pittsburg, KS 66762

Research areas:

Culture of crappie; cage culture; feeding techniques.

Aquaculture Program, James W.
Avault, Jr., Program Leader
School of Forestry, Wildlife and
Fisheries

Louisiana State University
Baton Rouge, LA 70803-6262

Phone: (504) 388-4131
FAX: (504) 388-4227

Research areas:

Economics and marketing; engineering; feeds and nutrition; food science; genetics; pathology; production systems; statistics; water quality.

Civil Engineering Aquatic Systems
Laboratory,
College of Engineering

Louisiana State University
Baton Rouge, LA 70803-6405

Phone: (504) 388-8666
FAX: (504) 388-8662

Research areas:

Automation and computer controls; filtration; recirculating systems.

Louisiana Sea Grant College Program
Center for Wetland Resources
Louisiana State University
Baton Rouge, LA 70803-7507

Phone: (504) 388-6445
FAX: (504) 388-6331

Research areas:

Automation and control of production systems (algae and soft crayfish); biofiltration; economics; management; hypermedia development and expert systems; recirculating systems design; shrimp reproduction.

Coordinator, Wildlife Management
Dept. of Life Science
Northwestern State University
Natchitoches, LA 71497

Research areas:

Paddlefish spawning.

Crawfish Research Center
University of Southwestern Louisiana
P.O. Box 44650
Lafayette, LA 70504

Phone: (318) 321-5239
FAX: (318) 231-5395

Research areas:

Crawfish research (pond culture, soft-shell production, fish and crawfish polyculture, physiology); non-traditional fish culture (bowfin, sunfish, freshwater drum and minnows); ornamental fish culture (koi carp and goldfish).

MAINE

**Provasoli-Guillard Center for Culture
of Marine Phytoplankton**

Bigelow Laboratory for Ocean Sciences
McKown Point
West Boothbay Harbor, ME 04575

Phone: (207) 633-2173

FAX: (207) 633-6584

**Department of Animal Veterinary and
Aquatic Sciences**

Hitchner Hall

University of Maine

Orono, ME 04469

Research areas:

Marine phytoplankton (culture, molecular biology, taxonomy, and ultrastructure).

Research areas:

Salmonid and shellfish nutrition, management, and health.

Center for Marine Studies

University of Maine

14 Coburn Hall

Orono, ME 04469-0114

Research areas:

Environmental effects of netpen fish farming in the ocean; fish diseases; hatchery enhancement of natural shellfish populations.

Phone: (207) 581-1435

MARYLAND

**Center for Environmental and Estuarine
Studies**

University of Maryland System

Center Operations

P.O. Box 775

Cambridge, MD 21613

Research areas:

Culture of striped bass, crayfish, and oysters; diagnosis and control; nutrition studies; remote setting of oysters.

Phone: (301) 228-9250

FAX: (301) 228-3843

MASSACHUSETTS

New England Aquarium

Harold E. Edgerton Research
Laboratory
Central Wharf
Boston, MA 02110

Phone: (617) 973-5252

FAX: (617) 723-6207

Research areas:

Culture of American lobsters and exotic fish species.

Biology Department

**Southeastern Massachusetts
University**

North Dartmouth, MA 02747

Research areas:

Marine macroalgae.

Department of Forestry and Wildlife
Management

University of Massachusetts

Amherst, MA 01003

Research areas:

Design of recirculating systems; oxygen transfer.

MICHIGAN

Biology Department

Central Michigan University

Mt. Pleasant, MI 48859

Research areas:

Ecological relationships of fish species; fisheries management and evaluation; spawning sites; distribution of specific fish species in lakes and streams.

Aquatic Research Laboratory

Lake Superior State University

Sault Ste. Marie, MI 49783

Research areas:

Movement and harvest of Atlantic salmon in the Great Lakes; phosphorus pollution from fish rearing.

North Central Regional Aquaculture
Center

13 Natural Resources Building

Michigan State University

East Lansing, MI 48824-1222

Research areas:

Regional aquaculture extension program; economics and marketing; culture technology for walleye and salmonids; culture of hybrid striped bass, bluegill, crappie and yellow perch.

Phone: (517) 353-1962 or 353-8698

Department of Biological Science
1400 Townsend Drive
Michigan Technological University
Houghton, MI 49931-1295

Research areas:
Digestive physiology and diet selection; fish ecology; phycology nutrition.

School of Natural Resources
University of Michigan
Ann Arbor, MI 48109

Research areas:
Culture of *Clarias* spp.; pond culture of tilapia.

MINNESOTA

Department of Fisheries and Wildlife
200 Hodson Hall
University of Minnesota
St. Paul, MN 55108

Research areas:
Broodstock development; culture methods; genetics; reproductive biology; water quality.

Center for Water and the Environment
Natural Resources Research Institute
University of Minnesota- Duluth
5013 Miller Trunk Hwy.
Duluth, MN 55811

Research areas:
Culture, harvest and marketing of crayfish; culture of finfish; rearing salmonids in netpens; impacts of aquacultural wastes on receiving waters.

MISSISSIPPI

Delta Branch Experiment Station
P.O. Box 197
Stoneville, MS 38776

Research areas:
Catfish, nutrition, and production practices; pond water quality; off-flavor in fish.

Phone: (601) 686-9311

Gulf Coast Research Laboratory
703 East Beach Boulevard
P.O. Box 7000
Ocean Springs, MS 39564-7000

Research areas:
Penaeid shrimp maturation and closed system growout; shrimp and fish parasites and diseases; rearing and toxicity testing (*Mercenaria mercenaria*, *Mysid cyprinidon* and guppy).

Phone: (601) 872-4200
FAX: (601) 872-4204

Director, **Mississippi Agricultural and Forestry Experiment Station**
P.O. Drawer ES
Mississippi State, MS 39762-5702

Phone: (601) 325-3005
FAX: (601) 325-3001

Research areas:

Economics and marketing; food processing and safety; health and nutrition of fish; production systems of catfish, hybrid striped bass, redfish, crawfish, and prawns.

Director, **Mississippi Cooperative Extension Service**
P.O. Box 5446
Mississippi State, MS 39762-5446

Phone: (601) 325-3006
FAX: (601) 325-8407

Research areas:

Provide educational programs in aquaculture.

Department of Wildlife and Fisheries
Mississippi State University
Mississippi State, MS 39762

Research areas:

Catfish nutrition, genetics, and production; hybrid striped bass and red drum production; crayfish and freshwater shrimp nutrition and production.

MISSOURI

The School of Natural Resources
University of Missouri-Columbia
Columbia, MO 65211

Phone: (314) 882-2353

Research areas:

Estimation of food consumption rates in fishes; fish bioenergetics; fish feeding and growth rate responses to interrupted feeding regimes.

MONTANA

Fish Technology Center
U.S. Fish and Wildlife Service
4050 Bridger Canyon Rd.
Bozeman, MT 59715

Phone: (406) 587-9265

Research areas:

Fish culture; fish nutrition control; histopathology; genetics.

NEW JERSEY

Fisheries and Aquaculture Technology
Extension Center

Rutgers University

P.O. Box 231

Blake Hall

New Brunswick, NJ 08903

Phone: (908) 932-8959

FAX: (908) 932-6557

Research areas:

Finfish and shellfish culture.

NEW YORK

Agricultural and Biological Engineering
302 Riley-Robb Hall

Cornell University

Ithaca, NY 14853

Phone: (607) 255-2280

FAX: (607) 255-4080

Research areas:

Closed cycle aquaculture system; third world aquaculture development projects.

Hofstra University Marine Lab

Hofstra University

Hempstead, NY 11550

Phone: (516) 463-5520

FAX: (516) 564-4296

Research areas:

Tilapia hybrid evaluation; intensive culture closed systems for tilapia.

Biology Department

Southampton College

Long Island University

Southampton, NY 11968

Research areas:

Reseeding with hatchery reared bay scallops (*Argopecten irradians*).

Department of Biological Sciences

SUNY Brockport

Brockport, NY 14420

Phone: (716) 395-5750

FAX: (716) 395-2416

Research areas:

Aquaculture in the Great Lakes; genetics of coolwater fishes; intensive culture of yellow perch; pond and cage culture of bullhead catfish.

Biology Department/ 630013
SUNY
Fredonia, NY 14063

Research areas:
Fish physiology; transgenic fish.

Department of Fisheries and Wildlife
SUNY
Cobleskill, NY 12043

Research areas:
Culture of char, salmon, and trout; economics and marketing; engineering of recirculating and filtration systems; fish processing products and technology.

College of Environmental Science and Forestry
SUNY
Syracuse, NY 13210

Research areas:
Biomass assessment and modelling; environmental contaminants and fish responses; larval fish ecology; culture of salmonids; fish migration patterns; phosphorus contribution by decomposing salmon.

Tunison Laboratory of Fish Nutrition
U.S. Fish and Wildlife Service
3075 Gracie Road
Cortland, NY 13045-9357

Research areas:
Fish feed formulation and nutrition; low phosphorus and starter diets; ozonated reuse systems.

Phone: (607) 753-9391
FAX: (607) 753-0259

NORTH CAROLINA

Sea Grant College Program
P.O. Box 8605
North Carolina State University
Raleigh, NC 27695-8605

Research areas:
Hybrid striped bass hatchery and pond production.

Phone: (919) 737-2454
FAX: (919) 737-7095

Center for Marine Science Research
University of North Carolina at Wilmington
601 South College Road
Wilmington, NC 28406

Research areas:
Screening algae for natural products; seagrass micropropagation technologies; seaweed selection for mariculture.

Phone: (919) 256-3721
FAX: (919) 256-8856

NORTH DAKOTA

Zoology Department
North Dakota State University
Fargo, ND 58105

Research areas:

Aquaculture potential of northern prairie wetlands; saline water effect on hatching (walleye, northern pike, yellow perch); growth and production of chironomidae and salmonids.

OHIO

School of Natural Resources
Ohio State University
2021 Coffey Rd.
Columbus, OH 43210-1085

Research areas:

Nutrition of young fishes.

OKLAHOMA

Department of Zoology
University of Oklahoma
Norman, OK 73019-0235

Research areas:

Exotic fish culture; growth control reproduction management.

OREGON

Coastal Oregon Marine Experiment Station
2030 S. Marine Science Dr.
Newport, OR 97365

Research areas:

Fish and invertebrate diseases; microbial ecology and nutrition; polyculture.

Phone: (503) 867-0100
FAX: (503) 867-3078

PENNSYLVANIA

Fisheries Program, Biology Department
Mansfield University
Mansfield, PA 16933

Research areas:

Intensive culture of tilapia.

School of Forest Resources
Pennsylvania State University
Fish and Wildlife Research Unit
Ferguson Building
University Park, PA 16802

Research areas:
Environmental and processing effects on
consumer acceptability of tilapia.

National Fishery Research and
Development Laboratory
U.S. Fish and Wildlife Service
RD#4, Box 63
Wellsboro, PA 16901

Research areas:
Aquaculture engineering; bio-engineering; fish
biology, diseases and immunology, and
genetics (American shad, Atlantic salmon, lake
trout, and striped bass).

Phone: (717) 724-3322
FAX: (717) 724-2525

Philadelphia Field Station
U.S. Fish and Wildlife Service
3500 Market Street
Philadelphia, PA 19104

Research areas:
Fish feeding behavior and attractants; fish
nutrition; fish physiology; water reuse
aquaculture.

Phone: (215) 898-6666
FAX: (215) 898-2084

PUERTO RICO

University of Puerto Rico
Department of Marine Sciences
P.O. BOX 5000
Mayaguez, PR 00681-5000

Research areas:
Genetics; hatchery techniques; nutrition;
processing and preservation methods;
production systems; water quality.

Aquaculture Experiment Station
Lajas Research and Development
Center
Department of Marine Sciences
University of Puerto Rico
P.O. Box 5000
Mayaguez, PR 00681-5000

Research areas:
Bird predation of pond culture fish, culture of
red tilapia and *Macrobrachium rosenbergii*,
evaluation of exotics (*Colossoma*, *Cichlasoma*,
Ampullaria); genetics (*Mercenaria mercenaria*,
Oreochromis).

Phone: (809) 265-3838 or 899-5750

RHODE ISLAND

Department of Fisheries, Animal &
Veterinary Science
University of Rhode Island
Kingston, RI 02881

Research areas:
Molluscan and salmonid aquaculture.

University of Rhode Island
Department of Zoology (Biological
Sciences Center)
Kingston, RI 02881-0816

Research areas:
Fish nutrition and growth; lobster nutrition;
salmon endocrinology.

Phone: (401) 792-2372

SOUTH CAROLINA

Department of Aquaculture, Fisheries
and Wildlife
Clemson University
Lehotsky Hall
Clemson, SC 29634-0362

Research areas:
Environmental requirements of aquaculture
species; prevention and treatment of diseases
in aquaculture species; production technology
for fishes and crayfish.

Phone: (803) 656-3117
FAX: (803) 656-5332 or 0321

James M. Waddell, Jr. Mariculture
Research & Development Center
**South Carolina Wildlife & Marine
Resources Department**
P.O. Box 809
Bluffton, SC 29910

Research areas:
Intensive penaeid larval nursery and growout
systems (*Penaeus vannamei*, *Penaeus
setiferus*); tank and pond culture of hybrid
striped bass; diet studies with above species.

Phone: (803) 837-3795
FAX: (803) 837-3487

Marine Resources Research Institute
**South Carolina Wildlife and Marine
Resources Department**
P.O. Box 12559
Charleston, SC 29412

Research areas:
Control, genetics and hybridization for hard
clams, penaeid shrimp, red drum, and
sturgeon; genetics, hatchery, and growout for
crustaceans, finfish, and mollusks.

Phone: (803) 795-6350
FAX: (803) 762-5001

Marine Science Program
University of South Carolina
Columbia, SC 29208

Research areas:
Physiology and genetics for shellfish; striped bass genetics; tilapia genetics and over-wintering.

S.C. Aquaculture & Marine Programs
International
Belle W. Baruch Institute
University of South Carolina
Columbia, SC 29208

Research areas:
Culture, genetics, and nutrition for Australian Red Claw; tilapia genetics and nutrition.

Phone: (803) 777-3925
FAX:(803) 777-3935

SOUTH DAKOTA

Department of Wildlife & Fisheries
Science
South Dakota State University
P.O. Box 2206
Brookings, SD 57007-1696

Research areas:
Development of polyploid fishes.

TEXAS

Aquatic Station
Southwest Texas State University
San Marcos, TX 78666

Research areas:
Culture of endangered fishes and salamanders.

Agricultural Research & Extension
Center
Texas A & M University
Route 2, Box 589
Corpus Christi, TX 78410

Research areas:
Raceway and pond grow-out technology; shrimp diseases, larviculture, maturation, nutrition, and reproduction.

Phone: (512) 265-9201

National Fish Hatchery & Technology
Center
U.S. Fish and Wildlife Service
Rt. 1, Box 159D
San Marcos, TX 78666

Research areas:
Blackbass production and broodstock maintenance; striped bass production; culture of endangered darters, paddlefish, and salamanders; zooplankton population studies in ponds.

Phone: (512) 353-0011

Marine Biomedical Institute
Cephalopod Biology Program
**University of Texas Medical Branch at
Galveston**

League Hall H63
Galveston, TX 77550-2774

Phone: (409) 772-2133
FAX: (409) 762-9382

Research areas:

Biology and life history of cephalopods;
computer controlled aquaculture systems;
culture and nutrition of cuttlefish and squid;
feed formulation; intensive aquaculture
systems; seawater filtration technology; water
quality (denitrification and ozonation).

UTAH

Zoology Department
Brigham Young University
Provo, UT 84602

Research areas:

Bacterial kidney diseases of lobster larvae;
heated effluent for fish production; parasites of
fish; small pond production.

VIRGINIA

Old Dominion University
Department of Oceanography
Building 1070
Norfolk, VA 23529-0276

Phone: (804) 683-4285
FAX: (804) 683-5303

Research areas:

Closed systems; crayfish culture; prawn
culture; reproductive biology of gobies and
crustaceans; sex reversal in crustaceans;
small-scale aquaculture.

Department of Environmental Sciences
Clark Hall
University of Virginia
Charlottesville, VA 22903

Research areas:

Aquatic ecology; hydrogeology; microbial
ecology.

Virginia Institute of Marine Science
P.O. Box 1346
Gloucester Point, VA 23062

Phone: (804) 642-7116
FAX: (804) 642-7113

Research areas:

Bivalve research; clam farming; oysters
(hatchery methods, setting methods); soft shell
blue crab shedding in tanks.

Virginia Polytechnic & State University
Department of Fisheries & Wildlife
77 Cheatham Hall
Blacksburg, VA 24061-0321

Phone: (703) 231-5573
FAX: (703) 231-3330

Research areas:
Economics of production in recirculating systems; genetic manipulation; harvesting systems and techniques; induced spawning; recirculating systems (energy management); seafood handling and processing.

WASHINGTON

Jack Ganzhorn, Fisheries Technology
Program
Peninsula College
1502 E. Lauridsen Blvd.
Port Angeles, WA 98362

Research areas:
Marine larval fish culture.

National Fisheries Research Center
Seattle
U.S. Fish and Wildlife Service
Bldg. 204, Naval Station Puget Sound
Seattle, WA 98115-5007

Research areas:
Culture and rearing of Pacific halibut
(*Hippoglossus stenolepis*).

Phone: (206) 526-6282
FAX: (206) 526-6654

Department of Botany, KB15
University of Washington
430 Hitchcock Hall
Seattle, WA 98195

Research areas:
Algae; water molds.

School of Fisheries, W4-10
University of Washington
Aquaculture Division
203 Fisheries Center
Seattle, WA 98195

Research areas:
Culture of shellfish, salmon and trout; fisheries genetics and physiology.

Department of Zoology
Washington State University
Pullman, WA 99164-4236

Research areas:
Genetics and reproductive manipulation of salmonid fishes.

WEST VIRGINIA

Fish Culture and Ecology Laboratory
U.S. Fish and Wildlife Service
P.O. Box 700
Kearneysville, WV 25430

Phone: (304) 725-8461
FAX: (FTS) 925-5265

National Fish Health Research
Laboratory
U.S. Fish and Wildlife Service
P.O. Box 700
Kearneysville, WV 25430

Phone: (304) 725-8461

Division of Forestry
West Virginia University
P.O. Box 6125
Morgantown, WV 26505

Research areas:

Culture of striped and hybrid striped bass
genetic manipulation, nutrition, physiology and
reproduction, phycology, and tagging).

Research areas:

Bioengineering; diet development; feeding
stimulants and nutrition; DNA fingerprinting;
fish health (immunology and diagnostics);
genetics; hatchery effluent; water reuse.

Research areas:

American shad (environmental requirements of
larval and juvenile stages; induced ovulation).

WISCONSIN

National Fisheries Research Center-
La Crosse
U.S. Fish and Wildlife Service
P.O. BOX 818
La Crosse, WI 54602-0818

Phone: (608) 783-6451
FAX: (608) 783-6066

Aquaculture Research Center
123 Babcock Hall
University of Wisconsin-Madison
Madison, WI 53706

Phone: (608) 263-2003
FAX: (608) 262-6872

Research areas:

Chemical and drug registration oriented
research.

Research areas:

Culture of salmonids, walleye, and yellow
perch; endocrinology; flow-through systems;
genetics; physiology; pond culture.

Center of Limnology
University of Wisconsin
Madison, WI 53706

Research areas:

Ecology (long term, trophic, community,
physiological, population, and marine).

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